Interaction between ribosomes and SecYEG/YidC in bacteria

Wu, Andy

Stellingen

Behorende bij het proefschrift

Interaction of ribosomes with SecYEG/YidC in bacteria

van Zht Cheng Wu

1) Surface Plasmon Resonance is a powerful tool to study the interaction between integral membrane proteins with soluble binding ligands (chapter 2).

2) SecA and ribosomes compete for the binding to the SecYEG translocon and cannot bind simultaneously (chapter 3).

3) The positively charged amino acid residues in cytolic loops (R357 and R255;R256) of SecY are important for the interaction with ribosomes and ribosome nascent chains (Menetret 2007, Chapter 3).

4) The elongated C-terminal tail of YidC is responsible for the ribosome interaction (chapter 4, chapter 5).

5) Both YidC1 and YidC2 from *Streptococcus mutans* interact with *E. coli* ribosomes and do not fundamentally differ in their ability to mediate co-translational membrane protein integration (chapter 5).

6) “I have no special talent. I am only passionately curious” Albert Einstein.

7) “Sometimes life hits you in the head with a brick. Don’t lose faith” (Steve Jobs).

8) The playstation gaming console is a wonderful invention that heals frustrations from the laboratory.

9) Translating an English summary from English to Chinese is hell of a work.